

BRUHAT BENGALURU MAHANAGARA PALIKE

Work: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa Bharathi Theater roads in Dasarahalli Ward No 15..

Estimated Cost Rs: 60.00 Lakhs

Description of work	No	Dimensions			Qty	Rate	Unit	Amount
		L	B	D				
	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
moving and refixing stone slabs of drains and pointing in CM (1:3) ,SR Rate 2018-19. P27,15.33								
Bharathi Theater(W0223)	1	110.00	0.90			99.00		
Excel kalyana mantapa(W0225)	1	138.00	0.90			124.20		
1st cross(W0214)	2	85.00	0.90			153.00		
2nd cross((W0212)	2	116.00	0.90			208.80		
cross(W0227)	2	36.00	0.90			64.80		
cross(W0229)	2	38.00	0.90			68.40		
Maheshwari nagara5th cross(W0069)	2	109.00	0.90			196.20		
Maheshwari nagara6th cross(W0063)	2	109.00	0.90			196.20		
Maheshwari nagara7th cross(W0059)	2	110.00	0.90			198.00		
				Total	1308.60			
missing slab of 35%					458.01			
				Total	850.59	111.30	sqm	94671.00
Basic Rate	105.00							
A.W.@ 6%	6.30							
Total	111.30							

2 KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto .imeters and an average lift upto 0.5 m, ex-f-avated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as perspecifications. MORTH / Chapter SR Rate.2018-19. p158/i21.3

Bharathi Theater(W0223)	1	110.00	0.90	0.75	74.25			
Excel kalyana mantapa(W0225)	1	138.00	0.90	0.75	93.15			
1st cross(W0214)	2	85.00	0.90	0.75	114.75			
2nd cross((W0212)	2	116.00	0.90	0.75	156.60			
cross(W0227)	2	36.00	0.90	0.75	48.60			
cross(W0229)	2	38.00	0.90	0.75	51.30			
Maheshwari nagara5th cross(W0069)	2	109.00	0.90	0.75	147.15			
Maheshwari nagara6th cross(W0063)	2	109.00	0.90	0.75	147.15			
Maheshwari nagara7th cross(W0059)	2	110.00	0.90	0.75	148.50			
road side and kerb								
Bharathi Theater	1	110.00	0.80	0.30	26.40			
Excel kalyana mantapa	1	138.00	0.80	0.30	33.12			
1st cross	2	85.00	0.80	0.30	40.80			
2nd cross	2	116.00	0.80	0.30	55.68			
cross	2	36.00	0.80	0.30	17.28			
cross	2	38.00	0.80	0.30	18.24			
Maheshwari nagara5th cross	2	109.00	0.80	0.30	52.32			
Maheshwari nagara6th cross	2	109.00	0.80	0.30	52.32			
Maheshwari nagara7th cross	2	110.00	0.80	0.30	52.80			
				Total	1330.41	133.56	Cum	177690.00
Basic Rate	126.00							
A.W.@ 6%	7.56							
Total	133.56							

3

KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 (P.222/1.27.18) PWD - SR 2018-19)

Road side and kerb

Bharathi Theater	2	110.00	0.30	0.10	6.60			
Excel kalyana mantapa	2	138.00	0.30	0.10	8.28			

1st cross	2	85.00	0.30	0.10	5.10			
2nd cross	2	116.00	0.30	0.10	6.96			
cross	2	36.00	0.30	0.10	2.16			
cross	2	38.00	0.30	0.10	2.28			
Shwari nagara5th cross	2	109.00	0.30	0.10	6.54			
Shwari nagara6th cross	2	109.00	0.30	0.10	6.54			
Shwari nagara7th cross	2	110.00	0.30	0.10	6.60			
Ganesha saw mill road	2	530.00	0.30	0.10	31.80			
road side and kerb	2	530.00	0.30	0.10	31.80			
					114.66	5421.90	Cum	621675.00
Basic Rate	5115.00							
Add Area Weightage 6%	306.90							
Total	5421.90							

KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.6 of PWD SR 2018-19)

flagging course of								
Bharathi Theater	2	110.00	0.15	0.20	6.60			
Excel kalyana mantapa	2	138.00	0.15	0.20	8.28			
1st cross	4	85.00	0.15	0.20	10.20			
2nd cross	4	116.00	0.15	0.20	13.92			
cross	4	36.00	0.15	0.20	4.32			
cross	4	38.00	0.15	0.20	4.56			
					Total	47.88	5747.32	Cum 275182.00
Basic Rate	5422.00							
A.W. @ 6%	325.32							
Total	5747.32							

- 5 Providing and fixing RCC precast Slabs of 0.10 m thick of CC M20 with 20 mm and down size graded granite metal, machine mixed, including cost of all material, labour, HOM of Machinery, curing complete

qty vide item no-01 missing slab of drain	458.01							
	458.01	1615.00	sqm					739686.00

- 6 Providing and fixing Pre cast solid concrete kerb stones made out of No.272 21 CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc. complete -do- of size 450x200x400 mm PWD SR 2018-19 (P-27, I No-5.29.1)

Bharathi Theater	2	110.00			220.00			
Excel kalyana mantapa	2	138.00			276.00			
1st cross	2	85.00			170.00			
2nd cross	2	116.00			232.00			
cross	2	36.00			72.00			
cross	2	38.00			76.00			
					218.00			
Maheshwari nagara5th cross	2	109.00			218.00			
Maheshwari nagara6th cross	2	109.00			220.00			
Maheshwari nagara7th cross	2	110.00			220.00			
					Total	1702.00		
					1774.00	452.88	No	803409.00
1702.00/0.45=								
Basic Rate	408.00							
A.W. @ 6%	44.88							
Total	452.88							

- 7 KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications SR 2018-19 P 124 I 15.80

Bharathi Theater	2	110.00	0.35	77.00				
Excel kalyana mantapa	2	138.00	0.35	96.60				
1st cross	2	85.00	0.35	59.50				
2nd cross	2	116.00	0.35	81.20				
cross	2	36.00	0.35	25.20				
cross	2	38.00	0.35	26.60				

ari nagara6th cross	2	109.00	0.35	76.30			
ari nagara5th cross	2	109.00	0.35	76.30			
ari nagara7th cross	2	110.00	0.35	77.00			
Basic Rate	37.00		Total	595.70	41.07	sqm	24465.00
A.W.@ 6%	4.07						
Total	41.07						

B 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. SR 2018-19 124 I 15.81

Bharathi Theater	2	110.00	0.35	77.00			
Excel kalyana mantapa	2	138.00	0.35	96.60			
1st cross	2	85.00	0.35	59.50			
2nd cross	2	116.00	0.35	81.20			
cross	2	36.00	0.35	25.20			
cross	2	38.00	0.35	26.60			
Maheshwari nagara5th cross	2	109.00	0.35	76.30			
Maheshwari nagara6th cross	2	109.00	0.35	76.30			
Maheshwari nagara7th cross	2	110.00	0.35	77.00			
			Total	595.70	94.35	Sqm	56204.00
Basic Rate	85.00						
A.W.@ 6%	9.35						
Total	94.35						

9 Providing and SUPPLYING Stone Dust/Grit,4.75mm to 0.075.SR 2108-19 P II 10400

Bharathi Theater	1	110.00	1.10	0.30	36.30		
1st cross	1	85.00	1.10	0.30	28.05		
				Total	64.35	1060.00	Cum
Basic Rate	1000.00						
A.W.@ 6%	60.00						
Total	1060.00						

10 KSRRB M400-6.2. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method by rotavator at OMC, and compacting with vibratory power roller to achieve the desired density, complete as per specifications. B. By Mix in Place Method. - For Grading II Material SR2018-19 P 153, I 20.6

Bharathi Theater	1	110.00	1.20	0.15	19.80		
1st cross	1	85.00	1.20	0.15	15.30		
				Total	35.10	1855.00	Cum
Basic Rate	1750.00						
A.W.@ 6%	105.00						
Total	1855.00						

11 KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406SR RATE 2018-19, P 155 I 20.18

Bharathi Theater	2	110.00	1.20	0.10	26.40		
1st cross	2	85.00	1.20	0.10	20.40		
Maheshwari nagara5th cross	1	111.00	1.20	0.10	13.32		
Maheshwari nagara6th cross	1	110.00	1.20	0.10	13.20		
Maheshwari nagara7th cross	1	110.00	1.20	0.10	13.20		
				Total	86.52	2001.28	Cum
Basic Rate	1888.00						
A.W.@ 6%	113.28						
Total	2001.28						

12 KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 SR 2018-19, P 158, I 21.6

Bharathi Theater	2	110.00	1.20		264.00			
1st cross	2	85.00	1.20		204.00			
Maheshwari nagara5th cross	1	111.00	1.20		133.20			
Maheshwari nagara6th cross	1	110.00	1.20		132.00			
Maheshwari nagara7th cross	1	110.00	1.20		132.00			
				Total	865.20	26.50	sqm	22928.00
Basic Rate	25.00							
A.W.@ 6%	1.50							
Total	26.50							

KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen. SR 2018-19.P160,I 21.17.6

Bharathi Theater	1	110.00	5.80		638.00			
Excel kalyana mantapa	1	138.00	5.80		800.40			
1st cross	1	85.00	4.50		382.50			
2nd cross	1	116.00	4.50		522.00			
cross	1	36.00	4.20		151.20			
cross	1	38.00	4.20		159.60			
Maheshwari nagara5th cross	1	109.00	6.00		654.00			
Maheshwari nagara6th cross	1	111.00	6.00		666.00			
Maheshwari nagara7th cross	1	110.00	6.00		660.00			
				Total	4633.70			
road Profile correction for road								
total=3991.80*1%					39.92			
Bharathi Theater	2	110.00	1.20	0.05	13.20			
1st cross	2	85.00	1.20	0.05	10.20			
				Total	63.32	5727.18	Cum	362645.00
Basic Rate	5403.00							
A.W.@ 6%	324.18							
Total	5727.18							

14 KSRRB M500-10. Providing and applying tack coat using 80/100 grade bitumen(VG10) in boiler fitted with spray set distributor at the rate of 0.20 kg per sqm on the existing prepared bituminous surface cleaned with mchancial broom. complete as per specifications - using bitumen 80/100 on primed surfaces SR2018-19,P159,I 21.10

Bharathi Theater	1	110.00	5.80		638.00			
Excel kalyana mantapa	1	138.00	5.80		800.40			
1st cross	1	85.00	4.50		382.50			
2nd cross	1	116.00	4.50		522.00			
cross	1	36.00	4.20		151.20			
cross	1	38.00	4.20		159.60			
Maheshwari nagara5th cross	1	109.00	6.00		654.00			
Maheshwari nagara6th cross	1	111.00	6.00		666.00			
Maheshwari nagara7th cross	1	110.00	6.00		660.00			
				Total	4633.70	10.60	sqm	49117.00
Basic Rate	10.00							
A.W.@ 6%	0.60							
Total	10.60							

15 Providing and laying Bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V Revision as per IRC SP-53-2015 using 40-60 TPH capacity HMP with mechanical paver grading II Cum (30-45mm) with 5.4 % of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (p-171, It 21.78.12) PWD SR 2018-19)

Bharathi Theater	1	110.00	5.80	0.04	25.52			
Excel kalyana mantapa	1	138.00	5.80	0.04	32.02			
1st cross	1	85.00	4.50	0.04	15.20			

2nd cross	1	116.00	4.50	0.04	20.88			
cross	1	36.00	4.20	0.04	6.05			
cross	1	38.00	4.20	0.04	6.38			
hwari nagara5th cross	1	109.00	6.00	0.04	26.16			
hwari nagara6th cross	1	111.00	6.00	0.04	26.64			
hwari nagara7th cross	1	110.00	6.00	0.04	26.40			
Cross road	1	125.00	4.00	0.04	20.00			
				Total	205.35	6761.74	Cum	1388510.00
Basic Rate	6379.00							
A.W.@ 6%	382.74							
Total	6761.74							

KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bitumin ous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 SR2018-19,P 182 124.15

Bharathi Theater	2	110.00	0.10		22.00			
Excel kalyana mantapa	2	138.00	0.10		27.60			
1st cross	2	85.00	0.10		17.00			
2nd cross	2	116.00	0.10		23.20			
cross	2	36.00	0.10		7.20			
cross	2	38.00	0.10		7.60			
Maheshwari nagara5th cross	2	109.00	0.10		21.80			
Maheshwari nagara6th cross	1	111.00	0.10		11.10			
Maheshwari nagara7th cross	2	110.00	0.10		22.00			
				Total	159.50	454.74	sqm	72531.00

Basic Rate	429.00
A.W.@ 6%	25.74
Total	454.74

17 KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/sand/.kanker/moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 PWD SR 2018-19 (P-136, It.No. 17.1)

Qty vide Item No.,2,

				1072.00			
			Total	1072.00	123.80	Cum	132714.00

Basic Rate 111.00

Conveying for 4Km 12.80

Total 123.80

18 Sub total								5127900.00
19 Tender Charges 5%.								256395.00
20 GST Charges 12%								615348.00
21 Miscellaneous & Rounding off:								357.00
				Total Rs:				6000000.00

CERTIFICATE:

1. The work spot has been inspected and found to be necessary
2. The work spot comes under BBMP Limits
3. The provisions made in the estimate are necessary and minimum
4. The estimate is based on CSR of 2018-19
5. The above work is not Repeated any other grants and not in the list of completed works

Assistant Engineer

ADMINISTRATIVELY SANCTIONED FOR 60,00,000 Lakhs.

(Rupees **Sixty lakhs only.**)

Under the Head of Account **P-3726**

Executive Engineer
T.Dasarahalli Division
Bruhat Bengaluru Mahanagara Palike

Registered as no EE(D.D.)/AS. **106/20-21** Subje
to conditions contained in Enclosed Memo

No **EE/DD/AS/106/20-21** Dt. **23/07/2020**

Exc. Eng
(DASARAHALLI)

JE/AE.

Assistant Executive Engineer
T.Dasarahalli Sub-Div
Bruhat Bengaluru Mahanagara Palike

Technically Sanctioned For Rs. 60,00,000 Lakhs.

Rs. In Words **Sixty lakhs only**

Under **P-3726**

Subje No. **015-20-000109**

Registered as SE No. **66** /20-21 subject

to conditions contained in Enclosed Memo

SE/DZ/TS/66/20-21 Dt. **24/07/2020**

AE/SE TA SE(D)